Human FGF-17 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF319

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FGF-17 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) FGF-8b and recombinant mouse FGF-8c is observed and less than 2% cross-reactivity with rhFGF acidic, rhFGF basic, rhFGF-4, rhFGF-5, rhFGF-6, rhFGF-7, rhFGF-10, and rhFGF-18 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human FGF-17 Thr23-Thr216 Accession # O60258
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

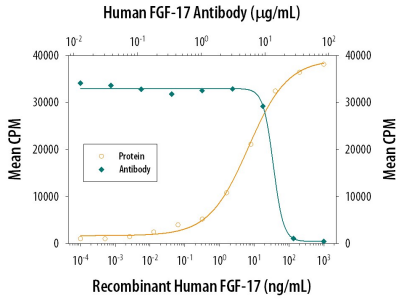
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human FGF-17 (Catalog # 319-FG)
Neutralization	Measured by its ability to neutralize FGF-17-induced proliferation in the NR6R-3T3 mouse fibroblast cell line. Rizzino, A. *et al.* (1988) Cancer Res. **48**:4266. The Neutralization Dose (ND_{50}) is typically 6-24 µg/mL in the presence of 100 ng/mL Recombinant Human FGF-17 and 1 µg/mL heparin.	

DATA

Neutralization



Cell Proliferation Induced by FGF-17 and Neutralization by Human FGF-17 Antibody. Recombinant Human FGF-17 (Catalog # 319-FG) stimulates proliferation in the the NR6R-3T3 mouse fibroblast cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human FGF-17 (100 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human FGF-17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF319). The ND_{50} is typically 6-24 µg/mL in the presence of heparin (1 µg/mL).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Fibroblast growth factors (FGFs) play multiple biological functions including angiogenesis, mitogenesis, cellular differentiation and wound repairing. All members of the FGF family have a conserved approximately 120 amino acid core with 30-70% identity. Among FGF family members, FGF-17 is most similar to FGF-8 (60% sequence identity) and FGF-18 (50% sequence identity). The mRNA of FGF-17 was found in midgestation of embryo and multiple adult tissues, and is preferentially expressed in specific sites, such as embryonic brain, developing skeleton and arteries. Human FGF-17 shares 98.6% amino acid (aa) sequence identity with mouse FGF-17. Rat FGF-17 shares 100% aa sequence identity with mouse FGF-17.

References:

1. Hoshikawa, M. *et al.* (1998) Biochem. Biophys. Res. Commun. **244**:187.
2. Xu, J. *et al.* (1999) Mech. Dev. **83**:165.

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